ATTORNEY'S DOCKET NO.
TI-32858

<u>APPLICATION FOR UNITED STATES PATENT</u>

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56(a);

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

TITLE OF INVENTION: DIGITAL TIMING RECOVERY METHOD FOR COMMUNICATION RECEIVERS

POWER OF ATTORNEY: I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS APPLICATION AND TRANSACT ALL BUSINESS IN THE PATENT AND TRADEMARK OFFICE CONNECTED THEREWITH Practitioners at Customer Number: 23494				
SEND CORRESPONDENCE TO: J. Dennis Moore Texas Instruments Incorporated, P. O. Box 655474, M/S 3999 Dallas, Texas 75265		DIRECT TELEPHONE CALLS TO: J. Dennis Moore (972) 917-5646		
NAME OF INVENTOR: (1) Fernando A. Mujica	NAME OF INVENTOR: (2) Udayan Dasgupta	NAME OF INVENTOR: (3) Sandeep Kesrimal Oswal		
RESIDENCE & POST OFFICE ADDRESS 1206 Bel Air Drive Allen, Texas 75013	RESIDENCE & POST OFFICE ADDRESS 430 Buckingham Road, #434 Richardson, Texas 75081	RESIDENCE & POST OFFICE ADDRESS 3507 14 th A. Main HAL 2 nd Stage Bangalore 560 038 India		
COUNTRY OF CITIZENSHIP: Venezuela	COUNTRY OF CITIZENSHIP: India	COUNTRY OF CITIZENSHIP: India		
SIGNATURE OF INVENTOR:	SIGNATURE OF INVENTOR:	SIGNATURE OF INVENTOR:		
DATE: 09/17/2001	DATE: 09 17 2001	DATE: 89/24 /2004		

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I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS

TITLE OF INVENTION: DIGITAL TIMING RECOVERY METHOD FOR COMMUNICATION RECEIVERS

	I AND TRANSACT ALL BUSINESS IN THE PA IECTED THEREWITH	ATENT AND TRADEMARK
Practit	ioners at Customer Numbers	23494
SEND CORRESPONDENCE TO: J. Dennis Moore Texas Instruments Incorporated, P. O. Box 655474, M/S 3999 Dallas, Texas 75265		DIRECT TELEPHONE CALLS TO: J. Dennis Moore (972) 917-5646
NAME OF INVENTOR: (4)	NAME OF INVENTOR: (5)	NAME OF INVENTOR: (6)
Murtaza Ali	Pradeep Kiran Sarvepalli	Prakash Easwaran
RESIDENCE & POST OFFICE ADDRESS 4336 Cutter Springs Court Plano, Texas 75024	RESIDENCE & POST OFFICE ADDRESS 61, 5 th Main, 7 th Cross, Domlur Layout Bangalore 560 071 India	RESIDENCE & POST OFFICE ADDRESS 777X, 13 th Main, 1 st Cross HAL 2 nd Stage Bangalore 560 008, India
COUNTRY OF CITIZENSHIP: Bangladesh	COUNTRY OF CITIZENSHIP: India	COUNTRY OF CITIZENSHIP: India
SIGNATURE OF INVENTOR: Mustaya Ah.	SIGNATURE OF INVENTOR:	SIGNATURE OF INVENTOR:
DATE: Sept. 19, 2001	DATE:	DATE: 6/9/2001

ATTORNEY'S DOCKET NO.

TI-32858

APPLICATION FOR UNITED STATES PATENT

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56(a);

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TITLE OF INVENTION: DIGITAL TIME	NG RECOVERY METHOD FOR COMP	TUNICATION RECEIVERS
POWER OF ATTORNEY: I HEREBY AP APPLICATION OFFICE CONN	POINT THE FOLLOWING ATTORNEYS TO PI I AND TRANSACT ALL BUSINESS IN THE PA JECTED THEREWITH Loners at Customer Number:	ROSECUTE THIS TENT AND TRADEMARK
SEND CORRESPONDENCE TO: J. Dennis Moore Texas Instruments Incorporated, P. O. Box 655474, M/S 3999 Dallas, Texas 75265		DIRECT TELEPHONE CALLS TO: J. Dennis Moore (972) 917-5646
NAME OF INVENTOR: (7)	NAME OF INVENTOR: (8)	NAME OF INVENTOR: (9)
Diptendra Narayan Basu		
RESIDENCE & POST OFFICE ADDRESS D-308, Casa Ansal 18, Bannerghatta Rd Bangalore 560 076 India	RESIDENCE & POST OFFICE ADDRESS	RESIDENCE & POST OFFICE ADDRESS
COUNTRY OF CITIZENSHIP:	COUNTRY OF CITIZENSHIP:	COUNTRY OF CITIZENSHIP:
SIGNATURE OF INVENTOR:	SIGNATURE OF INVENTOR:	SIGNATURE OF INVENTOR:
DATE: AUG 16, 2001	DATE:	DATE:

12/07/2001 13:55

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PAGE 02

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APPLICATION FOR UNITED STATES PATENT DECLARATION AND POWER OF ATTORNEY

As a below named inventor. I declare that my residence, post office address and citizenship are as stored below neat to my name; that I verily believe that I am the original. And and sole inventor if only one name is listed below, or an original, first and joint inventor if ploral inventors are named below. Of the subject master which is claimed and for which a patent is sought on the invention entitled as ser forth below, which is are named below. Of the subject master which is claimed and for which a patent is sought on the invention, including the claims, as amended by any described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any described in the attached specification; that I have reviewed and understand the contents of the specification on this invention has been filed by amended appearance of a the original referred to in the original or declaration, that no application for patent or inventor's certificate on this invention has been filed by amended appearance or assigns in any country foreign to the United States of America, and that I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56(a);

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A O	PPLICATION . FFICE CONNE	oint the pollowing attorneys to Pr and transact all business in the Pat acted therewith	
. 1	practiti	oners at customer numbe	DIRECT TELEPHONE CALLS TO:
			1. Dennis Moore
SEND CORRESPONDENCE TO			(972) 917-5646
Dennis Moore Texas Instrumento Incorporoted, P.O. Box 655478, M/S 3999			(912) 717 22 3
Dalias, Texas 75265 NAME OF INVENTOR: (4)	NAME OF INVENTOR: (5)	name of inventor: (6)
WHEN OF WAS TAKEN		Gamenalli	Przikzsk Esswaran
Murines Ali RESIDENCE & POST OFFICE 4336 Cutter Springs Court Plano, Texes 75074	2 ADDRESS	Predeep Kiron Sarvepuli RESIDENCE & POST OFFICE ADDRESS 402 Negle Street #111 Newport Apartments College Station, Terms 77840	RESIDENCE & POST OFFICE ADDRESS 777%, 13 th Main, 1 th Cross HAL 2 nd Stage Bangalore 560 008, India
COUNTRY OF CITIZENSHIP Bongledesh	?:	COUNTRY OF CITIZENSHIP:	COUNTRY OF CITIZENSHIP:
Signature of Inventor	R :	SIGNATURE OF INVENTOR:	Signature of inventor:
DATE:		DATE: 12.07.2001	DATE: